Revision Date: 04/01/2021

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

#### 1. Identification

Product identifier: NON-CHLORINATED BRAKE CLEANER- SP4655

Other means of identification

**SDS number:** RE1000040219

Recommended restrictions
Recommended use: Cleaner
Restrictions on use: Not known.

Manufacturer Information Manufactured For

Company Name: ASSOCIATION OF INDEPENDENT OIL DISTRIBUTORS

Address: 203 W MAIN STREET

MONTROSE, CO 81402-1861

US

Telephone: 800-313-2463

Emergency telephone number: 1-866-836-8855

# 2. Hazard(s) identification

#### **Hazard Classification**

# **Physical Hazards**

Flammable liquids Category 2

#### **Health Hazards**

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Category 2

Carcinogenicity

Category 2

Toxic to reproduction

Specific Target Organ Toxicity Single Exposure

Aspiration Hazard

Category 2

Category 2

Category 2

Category 3

(Narcotic effect.)

Category 1

#### **Environmental Hazards**

Acute hazards to the aquatic Category 2 environment

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

Revision Date: 04/01/2021

**Hazard Statement:** Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Toxic to aquatic life.

Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the

environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing. In case of fire: Use... to

extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up. Keep container

tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged

even in bonded and grounded equipment.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
2-Propanone	67-64-1	50 - <100%
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - <25%
Heptane	142-82-5	5 - <10%
Benzene, dimethyl-	1330-20-7	5 - <10%
Benzene, ethyl-	100-41-4	1 - <5%
Cyclohexane, methyl-	108-87-2	1 - <5%
Benzene, methyl-	108-88-3	0.1 - <1%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

Revision Date: 04/01/2021

#### 4. First-aid measures

#### Description of necessary first-aid measures

**Inhalation:** Move to fresh air.

Skin Contact: Take off immediately all contaminated clothing. Immediately flush with

plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get

medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy

to do, remove contact lenses. Get medical attention.

**Ingestion:** Call a physician or poison control center immediately. Rinse mouth.

Never give liquid to an unconscious person. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs.

**Personal Protection for First-**

aid Responders:

Firefighters must use standard protective equipment including flame

retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

#### 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be

ineffective in fighting the fire. Fight fire from a protected location. Move

containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of

vapors or gases to explosive concentrations.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

Revision Date: 04/01/2021

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Accidental release measures:

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Dike for later disposal.

Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. In case of leakage, eliminate all ignition sources. Dike far ahead of larger spills for later disposal.

**Environmental Precautions:** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

# 7. Handling and storage

#### Handling

Technical measures (e.g. Local and general ventilation):

No data available.

Safe handling advice:

Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with skin.

Contact avoidance measures:

No data available.

**Storage** 

Safe storage conditions:

Store locked up. Store in a well-ventilated place. Store in a cool place.

Safe packaging materials:

No data available.

**Storage Temperature:** 

No data available.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure L	imit Values	Source
2-Propanone	STEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR
				1910.1000), as amended
	TWA	250 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	750 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	250 ppm	590 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Naphtha (petroleum), hydrotreated light	REL	100 ppm	400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR
			_	1910.1000), as amended
Heptane	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	85 ppm	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended

Revision Date: 04/01/2021

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	STEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	500 ppm		US. ACGIH Threshold Limit Values, as amended
	Ceil_ Time	440 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, dimethyl-	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	150 ppm	655 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	150 ppm	<u> </u>	US. ACGIH Threshold Limit Values, as amended
	STEL	150 ppm	655 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, ethyl-	STEL	125 ppm	545 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	REL	100 ppm	435 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	100 ppm	435 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	STEL	125 ppm	545 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	100 ppm	435 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
Cyclohexane, methyl-	PEL	500 ppm	2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	400 ppm	1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	400 ppm		US. ACGIH Threshold Limit Values, as amended
	REL	400 ppm	1,600 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Benzene, methyl-	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Hexane	TWA	50 ppm	180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	500 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	REL	50 ppm	180 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	50 ppm		US. ACGIH Threshold Limit Values, as amended
Cyclohexane	TWA	100 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	300 ppm	1,050 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	300 ppm	1,050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	300 ppm	1,050 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Benzene	REL	0.1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	1 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	Ceiling	25 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	TWA	0.5 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	2.5 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	OSHA _ ACT	0.5 ppm		US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	TWA	10 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	MAX.	50 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	CONC	Jo ppiii		55. 55 rabio 2 2 (25 5) 1. 1510.1550), ab amondod
	STEL	5 ppm		US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	1 ppm		US. OSHA Specifically Regulated Substances (29 CFR
				1910.1001-1053), as amended
	STEL	1 ppm		US. NIOSH: Pocket Guide to Chemical Hazards, as amended

# **Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
2-Propanone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEL
Benzene, dimethyl- (Methylhippuric acids: Sampling time: End of shift.)	1.5 g/g (Creatinine in urine)	ACGIH BEL
Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)	0.15 g/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL
Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)	0.5 mg/l (Urine)	ACGIH BEL
Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)	25 μg/g (Creatinine in urine)	ACGIH BEL
Benzene (t,t-Muconic acid: Sampling time: End of shift.)	500 μg/g (Creatinine in urine)	ACGIH BEL

Revision Date: 04/01/2021

**Exposure guidelines** 

Hexane	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Benzene	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

**Appropriate Engineering** 

**Controls** 

No data available.

Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

**Hand Protection:** No data available.

**Skin and Body Protection:** Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash

contaminated clothing before reuse. Avoid contact with skin.

#### 9. Physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: No data available. Odor: No data available. **Odor Threshold:** No data available. pH: No data available. Freezing point: No data available. **Boiling Point:** Estimated 71.59 °C Flash Point: Estimated -5.13 °C **Evaporation Rate:** No data available. Flammability (solid, gas): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. Vapor pressure: No data available. Vapor density (air=1): No data available. Density: No data available. Relative density: No data available. Solubility in Water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. **Self Ignition Temperature:** No data available.

Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

No data available.

Revision Date: 04/01/2021

# 10. Stability and reactivity

**Reactivity:** No data available.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Heat, sparks, flames.

**Incompatible Materials:** No data available.

**Hazardous Decomposition** 

**Products:** 

No data available.

#### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** ATEmix: 23,014.96 mg/kg

Inhalation

**Product:** ATEmix: 156.92 mg/l Vapour

Repeated dose toxicity

**Product:** No data available.

Components:

2-Propanone NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental

result, Key study

Naphtha (petroleum), NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation

hydrotreated light Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Readacross based on grouping of substances (category approach), Key study

NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal

Experimental result, Supporting study

Revision Date: 04/01/2021

NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental Heptane

result, Key study

NOAEL (Rat(Female), Oral, 90 d): 150 mg/kg Oral Experimental result, Key Benzene, dimethyl-

Benzene, ethyl-NOAEL (Mouse(Female, Male), Inhalation, 104 Weeks): 75 ppm(m)

Inhalation Experimental result, Key study

NOAEL (Rat(Female, Male), Oral, 28 d): 75 mg/kg Oral Experimental result.

Kev study

Cyclohexane, methyl-NOAEL (Rat(Female, Male), Inhalation): 1,600 mg/m3 Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Oral, 28 d): 1,000 mg/kg Oral Experimental

result. Kev study

NOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg Oral Experimental

result. Key study

Benzene, methyl-LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target

> Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation

Experimental result, Key study

Skin Corrosion/Irritation

**Product:** No data available.

Components:

2-Propanone in vivo (Rabbit): Not irritant Naphtha (petroleum), Assessment Non-Irritating hydrotreated light In vitro (Human): not corrosive in vivo (Rabbit): Irritating in vivo (Rabbit): Moderate irritant Heptane

Benzene, dimethyl-

estimated Irritating. estimated Irritating.

Cyclohexane, methyl-Benzene, methylin vivo (Rabbit): Irritating

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Components:

2-Propanone Irritating.

> Rabbit, 24 hrs: Minimum grade of severe eye irritant Rabbit, 24 - 72 hrs: Not irritating

Naphtha (petroleum),

hydrotreated light

Heptane Rabbit, 24 - 72 hrs: Not irritating

Rabbit, 1 hrs: Slightly irritating (Not Classified) Benzene, dimethyl-

Cyclohexane, methyl-Rabbit, 0.5 - 168 hrs: Not irritating Benzene, methyl-Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Components:

2-Propanone Skin sensitization:, in vivo (Guinea pig): Non sensitising Naphtha (petroleum), Skin sensitization:, in vivo (Guinea pig): Non sensitising

hydrotreated light

Heptane Skin sensitization:, in vivo (Guinea pig): Non sensitising Benzene, ethyl-Skin sensitization:, in vivo (Human): Non sensitising Cyclohexane, methyl-Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising Benzene, methyl-

Carcinogenicity

**Product:** No data available.

Components:

Cyclohexane, methyl-May cause cancer.

Revision Date: 04/01/2021

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Benzene, ethyl- Overall evaluation: 2B. Possibly carcinogenic to humans.

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

Benzene, ethyl- Overall evaluation: 2B. Possibly carcinogenic to humans.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

#### **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

Components:

Benzene, methyl- Suspected of damaging fertility or the unborn child.

# **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

Components:

2-Propanone Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Heptane Narcotic effect. - Category 3 with narcotic effects.

Cyclohexane, methylBenzene, methylInhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

#### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

Components:

Benzene, ethylCyclohexane, methylBenzene, methylCategory 2
Category 2

#### **Target Organs**

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

**Aspiration Hazard** 

**Product:** No data available.

Components:

Naphtha (petroleum), May be fatal if swallowed and enters airways.

hydrotreated light

Heptane May be fatal if swallowed and enters airways.

Benzene, ethylCyclohexane, methylBenzene, methylMay be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

Other effects: No data available.

#### 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Revision Date: 04/01/2021

Components:

2-Propanone LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key

study

Naphtha (petroleum),

hydrotreated light

LC 50 (96 h): 8.41 mg/l Experimental result, Key study

Heptane LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality

Benzene, ethyl-LC 50 (Fathead minnow (Pimephales promelas), 96 h): 38.9 - 62.83 mg/l

Mortality

LC 50 (Oryzias latipes, 96 h): 2.07 mg/l Experimental result, Key study Cyclohexane, methyl-

Benzene, methyl-LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

Product:

No data available.

Components:

2-Propanone LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study

Naphtha (petroleum), hydrotreated light

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

Heptane EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study

LC 50 (Water flea (Daphnia magna), 24 h): 57 - 100 mg/l Mortality Benzene, ethyl-

LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality Benzene, methyl-

LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study

#### Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Naphtha (petroleum), hydrotreated light

NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

NOAEL (Oncorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study Heptane

Benzene, methyl-NOAEL (Oncorhynchus kisutch): 1.39 mg/l Experimental result, Key study

LOAEL (Oncorhynchus kisutch): 2.77 mg/l Experimental result, Key study

**Aquatic Invertebrates** 

Product:

No data available.

Components:

2-Propanone LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study

Naphtha (petroleum),

hydrotreated light

EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study

Heptane NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of

substances (category approach), Key study

EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of

substances (category approach), Key study

Revision Date: 04/01/2021

Benzene, ethyl- LC 50 (Ceriodaphnia dubia): 3.2 mg/l Other, Key study

NOAEL (Ceriodaphnia dubia): 1 mg/l Other, Key study

Benzene, methyl- LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study

NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

Product:

No data available.

Persistence and Degradability

Biodegradation

**Product:** No data available.

Components:

2-Propanone 90.9 % (28 d) Detected in water. Experimental result, Key study

Naphtha (petroleum), hydrotreated light

90.35 % (28 d) Detected in water. Experimental result, Supporting study

Heptane 70 % Detected in water. Experimental result, Key study

Benzene, dimethyl- 87.8 % Detected in water. Read-across from supporting substance

(structural analogue or surrogate), Key study

Benzene, ethyl- 2.7 % Detected in water. Other, Supporting study

70 - 80 % (28 d) Detected in water. Experimental result, Key study

Cyclohexane, methyl- > 0 % (28 d) Detected in water. Experimental result, Weight of Evidence

study

> 0 % (28 d) Detected in water. Experimental result, Weight of Evidence

study

Benzene, methyl- 100 % (14 d) Detected in water. Experimental result, Weight of Evidence

study

86 % Detected in water. Experimental result, Weight of Evidence study

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Components:

2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment

Experimental result, Not specified

Naphtha (petroleum), hydrotreated light

Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by

calculation, Key study

Heptane Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by

calculation, Key study

Benzene, dimethyl- Oncorhynchus mykiss, Bioconcentration Factor (BCF): > 7.6 - < 21.6 Aquatic

sediment Experimental result, Key study

Benzene, ethyl- Carassius auratus, Bioconcentration Factor (BCF): 15.5 Aquatic sediment

Other, Supporting study

Cyclohexane, methyl- Cyprinus carpio, Bioconcentration Factor (BCF): > 95 - < 321 Aquatic

sediment Experimental result, Key study

Revision Date: 04/01/2021

Benzene, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment

Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Components:

Naphtha (petroleum),

Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study

hydrotreated light

Benzene, dimethyl- Log Kow: 2.77 - 3.15 No Not specified, Not specified

Benzene, ethyl- Log Kow: 3.13 - 3.14 No Other, Supporting study

**Mobility in soil:** No data available.

Components:

2-Propanone
No data available.
Naphtha (petroleum), hydrotreated light
Heptane
No data available.
Vo data available.
No data available.

Other adverse effects: Toxic to aquatic organisms.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1993

UN Proper Shipping Name: Flammable liquids, n.o.s. (Acetone)

Transport Hazard Class(es)

Class: 3 Label(s): – EmS No.:

Packing Group:

Special precautions for user: Not regulated.

**IATA** 

UN Number: UN 1993

UN Proper Shipping Name: Flammable liquids, n.o.s. (Acetone)

Transport Hazard Class(es):

Class: 3
Label(s): Packing Group: II

Special precautions for user: Not regulated.

Other information

Passenger and cargo aircraft: Forbidden. Cargo aircraft only: Forbidden.

Revision Date: 04/01/2021

**IMDG** 

**UN Number:** UN 1993

**UN Proper Shipping Name:** Flammable liquids, n.o.s. (Acetone)

Transport Hazard Class(es)

Class: 3 Label(s): EmS No.:

Packing Group: Ш

Special precautions for user: Not regulated.

#### 15. Regulatory information

#### **US Federal Regulations**

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

**Chemical Identity** OSHA hazard(s)

Benzene **Flammability** 

Cancer Aspiration Eye Blood Skin

respiratory tract irritation Central nervous system

#### CERCLA Hazardous Substance List (40 CFR 302.4):

#### **Chemical Identity**

**ACETONE** 

UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY

XYLENE (MIXED) **ETHYLBENZENE** BENZENE, METHYL-**HEXANE** 

**CYCLOHEXANE** 

BENZENE, HEXAHYDRO-

**BENZENE** 

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Flammable liquids, Skin Corrosion/Irritation, Serious Eye Damage/Eye Irritation, Carcinogenicity, Toxic to reproduction, Specific Target Organ Toxicity - Single Exposure, Aspiration Hazard, Staticaccumulating flammable liquid

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

**Chemical Identity** % by weight

Benzene, dimethyl-1.0% 0.1% Benzene, ethyl-

Revision Date: 04/01/2021

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

#### **US State Regulations**

#### **US.** California Proposition 65

For more information go to www.P65Warnings.ca.gov.

# US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

2-Propanone

Naphtha (petroleum), hydrotreated light

Heptane

Benzene, dimethyl-

Benzene, ethyl-

Cyclohexane, methyl-

# **US. Massachusetts RTK - Substance List**

# **Chemical Identity**

Benzene

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

2-Propanone

Naphtha (petroleum), hydrotreated light

Heptane

Benzene, dimethyl-

Benzene, ethyl-

Cyclohexane, methyl-

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

#### International regulations

#### Montreal protocol

2-Propanone

# Stockholm convention

2-Propanone

#### **Rotterdam convention**

2-Propanone

#### **Kyoto protocol**

Revision Date: 04/01/2021

**Inventory Status:** 

Australia AICS On or in compliance with the inventory

Canada DSL Inventory List On or in compliance with the inventory

Canada NDSL Inventory Not in compliance with the inventory.

Ontario Inventory On or in compliance with the inventory

China Inv. Existing Chemical Substances On or in compliance with the inventory

Japan (ENCS) List On or in compliance with the inventory

On or in compliance with the inventory Japan ISHL Listing

Japan Pharmacopoeia Listing Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI) On or in compliance with the inventory

On or in compliance with the inventory Mexico INSQ

New Zealand Inventory of Chemicals On or in compliance with the inventory

Philippines PICCS On or in compliance with the inventory

Taiwan Chemical Substance Inventory On or in compliance with the inventory

On or in compliance with the inventory **US TSCA Inventory** 

EINECS, ELINCS or NLP Not in compliance with the inventory.

#### 16.Other information, including date of preparation or last revision

Issue Date: 04/01/2021

**Revision Information:** No data available.

Version #: 1.0

**Further Information:** No data available.

Disclaimer: This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent

determination of the methods to safeguard workers and the environment.